

**Notice of Allowability**

Application No.

10/676,309

Applicant(s)

SLAWECKI, DARREN

Examiner

Tuan T. Lam

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 1/24/2005.
2. ☒ The allowed claim(s) is/are 1-3 and 6-26.
3. ☒ The drawings filed on 1/24/2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |                                                                                                                     |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)                                                    | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|                                                                                                                     | 9. <input type="checkbox"/> Other _____                                               |

  
TUAN T. LAM  
PRIMARY EXAMINER

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The following changes have been made to the subject application:

**Claim 1:**

Lines 4-5, "the first matching stage" has been changed to --the inverting first matching stage--;

Lines 8-9 and 11, "the first pull-up stage" has been changed to --the inverting first pull-up stage--.

**Claim 8:**

Line 2, "the first output stage" has been changed to --the inverting first output stage--;

Lines 5-6, "the second matching stage" has been changed to --the inverting second matching stage--;

Line 1, "the second pull-up stage" has been changed to --the inverting second pull-up stage--.

**Claim 9:**

Lines 5-6, "the first matching stage" has been changed to --the inverting first matching stage--;

line 10, "the first pull-up stage" has been changed to --the inverting first pull-up stage--.

**Claim 12:**

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Line 1, "the first matching stage" has been changed to --the inverting first matching stage--.

**Claim 15:**

line 1, "the first pull-up stage" has been changed to --the inverting first pull-up stage--.

**Claim 18:**

Lines 2-3, "the first output stage" has been changed to --the inverting first output stage--;

Line 5, "the second matching stage" has been changed to --the inverting second matching stage--;

Lines 7 and 9, "the second pull-up stage" has been changed to --the inverting second pull-up stage--.

**Claim 20:**

Line 11, "the first pull-up stage" has been changed to --the variable first pull-up stage--.

**Claim 23:**

Line 10, "the second pull-up stage" has been changed to --the variable second pull-up stage--.

The changes have been made to provide antecedent basis and to place the application in a condition for allowance.

2. The following is an examiner's statement of reasons for allowance: the amendment filed 1/24/2005 has overcome the prior art of record. The prior art of record fails to teach or fairly suggest an inverting first output stage coupled to the first inverting first pull up stage to generate a third inverted signal in response to the second inverted signal and the inverting first pull up

stage being configured to generate a variable phase delay in the second inverted signal and the third inverted signal as called for in claim 1, the first pull up stage being configured to generate a variable amount of phase shift in the second inverted signal and an automatic test equipment coupled to the inverting first pull up stage to adjust the variable amount of the phase shift in the second inverted signal as called for in claim 9, adjusting the first the pulse width change to substantially equal to the second pulse width change to provide the second inverter waveform with an approximately 50% duty cycle, adjusting the variable first pull up stage to obtain a selected first phase shift of the second inverted waveform as called for in claim 20, the first matching stage including a non-inverting logic element having an input to receive the input clock signal a NOR gate with one input connected to the input of the non-inverting logic element and another input connected to an output of the non-inverting logic element as called for in claim 25. Therefore, claims 1-3 and 6-26 are presently allowed.

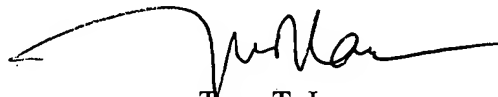
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Tuan T. Lam', with a long horizontal stroke extending to the right.

Tuan T. Lam  
Primary Examiner  
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3/26/2005